

Figure 1a

MDSEAFQSARDFLDMNFQSLAMKHMDLKQMELDTAALKVDELTKQLESLSWSDSPAPPGPQAGP
 PSRPPRYSSSSIEPFSGSRGSPRKAATDGADTPFGRSEAPTLHPYSPLSPKGRPSSPRTPLYLQPDAY
 GSLDRATSPRPRAFDGAGSSLGRAPSPRPGPGPLRQQGPPTPFDFLGRAGSPRGSPLAEGPQAFFPE
 RGPSRPPATA YDAPASAFGSSLLGSGGSAFAPPLRAQDDLTLRRRPPKAWNESDL DVA YEKKPSQ
 TASYERLDV FARPASPSLQLLPWRESSLDGLGGTGKDNLT SATLPRNYKVSPLASDRRSDAGSYRR
 SLGSAGPSGTLPRSWQPVSRI PMPPSSPQPRGAPRQRPIPLSMIFKLQNAFWEHGASRAMLP GSPFLF
 TRAPPPKLQPPQPQPQPSQPQQLPPQPQTQPQTPTAPQHPQQTWPPVNEGPPKPPTELEPEPEI
 EGLLTPVLEAGDVDEGPVARPLSPTRLQALPPEAOSVPELEEVARVLA EIPRPLKRRGSMEQAPA
VALPPTHKKQYQOQIISRLFHRHGGPGPGGPEPELSPITEGSEARAGPPAPAPPAPIPPPAPSOSSPPEQ
POSMEMRSVLRKAGSPRKARRARLNPLVLLDAAALTGELEVVOQAVKEMNDPSQPNEEGITALH
NAICGANYSIVDFLITAGANVNSPD SHGWTPLHCAASCNDTVICMALVOHGAAIFATLSDGATAF
EKCDPYREGYADCATYLADVEQSMGLMNSGAVYALWDYSAEFGDELSFREGESVTVLRRDGPBE
TDWWWAALHGQEGYVPRNYFGLFPRVKPORSKV*

Figure 1b

CCACGCGTCCGGGAAGCCCCAGGTGCCAGGATCTGCCCGGATCCGCGCCCGCTCCGGCCGG
 CACCATGGACAGCGAGGCATTCCAGAGCGCGCGGACTTTCTGGACATGAACCTCCAGTCGCT
 GGCCATGAAACACATGGATCTGAAGCAGATGGAGCTGGACACGGCGGCGGCCAAGGTGGATG
 AACTGACCAAGCAGCTGGAGTCGCTGTGGTCAGACTCTCCCGCGCCTCCTGGCCCGCAGGCCG
 GACCCCTTCTAGGCCGCCCCGGTACAGCTCCAGCTCGATCCCTGAGCCCTTCGGCAGCCGAG
 GGTCCCCCGGAAGGCGGCCACCGACGGCGCAGACACCCGTTCCGACGATCAGAGAGTGCC
 CCAACCCTACACCCCTACAGCCCGCTGTCCCCCAAGGGACGGCCGTCGTCGCCGCGCACCCCG
 CTCTACCTGCAGCCGGACGCCTACGGCAGCCTGGACCGCGGACCTCGCCCGCGCCCGCGCC
 TTCGATGGCGCAGGCAGCTCCCTCGGCCGTGCGCCCTCCCGCGGCCCGGGCCAGGCCCGCTC
 CGCCAGCAGGGTCCCCCACGCCTTTCGACTTCTGCGGCCGCGCAGGCTCCCCCGCGGCAGC
 CCCCTGGCGGAGGGGGCCCCAGGCCTTCTTCCCCGAGCGTGGGCGGTCACCGCGCCCCCTGCC
 ACAGCCTACGACGCGCCAGCGTCCGCCTTCGGGAGCTCCCTGCTAGGCTCCGGCGGCAGCGCA
 TTCGCCCCGCCTCTGCGCGCGCAAGACGACCTGACGCTGCGCCGGCGGCCTCCGAAAGCCTGG
 AACGAGTCTGACCTGGACGTGGCGTACGAGAAGAACGCTTCGCAGACAGCGAGCTATGAACG
 CCTGGACGTCTTCGCAAGGCCTGCCTCGCCGAGCCTGCAGCTGTTGCCTTGGAGGGAGAGCAG
 CCTGGATGGACTGGGGGGCACCGGCAAGGACAACCTCACTAGCGCCACCCTGCCGCGCAAT
 ACAAGGTCTCTCTCTGGCCAGCGACCGCGCTTCAGACGCGGGCAGCTACCGGCGCTCGCTGG
 GCTCCGCGGGGCCGTCGCGGCACTTTGCCTCGCAGCTGGCAGCCCGTCAGCCGCATCCCCATGC
 CCCCCTCCAGCCCCAGCCCCGCGGGGCCCGCGCCAGCGTCCCATCCCCCTCAGCATGATCT
 TCAAGCTGCAGAACGCCTTCTGGGAGCACGGGGCCAGCCGCGCCATGCTCCCTGGGTCCCCC
 TCTTACCCGAGCACCCCCGCCTAAGCTGCAGCCCCAACCAACACAGCCCCAGCCACAAT
 CACAACCACAGCCCCAGCTGCCCCACAGCCCCAGACCCAACCCCAAACCCCTACCCAGCCC
 CCCAGCATCCCCAACAGACATGGCCCCCTGTGAACGAAGGACCCCCCAAACCCCAACCGAG
 CTGGAGCCTGAGCCGGAGATAGAGGGGTGCTGACACCAAGTGTGGAGGCTGGCGATGTGGA
 TGAAGGCCCTGTAGCAAGGCCTCTCAGCCCCAGAGGCTGCAGCCAGCAGCTGCCACCGGAG
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 CACCAGCTCCCATTCACCCCCGCCCCGTCCAGAGCAGCCACCAAGAGCAGCCGCAGAGC
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 CAACCTCTGGTGCTCCTCTGGACGCGCGCTGACCGGGGAGCTGGAGGTGGTGACGAGCAG
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 GTCGAGCAGAGTATGGGGCTGATGAACAGCGGGGCAGTGACGCTCTCTGGGACTACAGCGC

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GGCCGGAGGAGACCGACTGGTGGTGGGCCGCGCTGCACGGCCAGGAGGGCTACGTGCCGCGG
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TTGCTGCCTTTATCTGCACCCCTCACCTGCTGGTGGTGGTCCCTTGCCACCGGTTCTCTGTTCTC
CTGGAAGTCCAGGGAAGAAGGAGGGCCCCAGCCTTAAATTTAGTAATCTGCCTTAGCCTTGGG
AGGTCTGGGAAGGGCTGGAAATCACTGGGGACAGGAAACCACTTCCTTTTGCCAAATCAGAT
CCCGTCCAAAGTGCCTCCCATGCCTACCACCATCATCACATCCCCAGCAAGCCAGCCACCTG
CCCAGCCGGGCCTGGGATGGGCCACCACCACTGGATATTCCTGGGAGTCACTGCTGACACC
ATCTCTCCAGCAGTCTTGGGGTCTGGGTGGGAAACATTGGTCTCTACCAGGATCCCTGCCCC
ACCTCTCCCAATTAAGTGCCTTCACACAGCTCTGGTTTAATGTTTATAAAACAAAATAGAGAA
ACTTTCCTTATAAATAAAAAGTAGTTTGCACAGAAAAAAAAAAAAAAAAAAAA

Figure 2a

MWMKDPVARPLSPTRLQPALPPEAQSVPELEEVARVLAIEPRPLKRRGSMEQAPAVA
 LPPTHKKQYQQIISRLFHRHGGPGPGGRSQSCPPSLRDLRPGQGPLLPHQLPFHRPAP
 SQSSPPEQPQSMEMRSVLRKAGSPRKARRARLNPLVLLLDAAALTGELEVQQA VKE
 MNDPSQPNEEGITALHNAICGANYSIVDFLITAGANVNSPD SHGWTPLHCAASCNDT
 VICMALVQHGA AIFATTLSDGATAFEKCDPYREGYADCATY LADVEQSMGLMNSGA
 VYALWDYSAEFGDELSFREGESVTVLRRDGP EETDWWW AALHGQEGYVPRNYFGL
 FPRVKPQRSKV

Figure 2b

GCGGCCGCGTCGACCCGGCGTTTCAGACGCGGGCAGCTACCGGCGCTCGCTGGGTCCGCGGGGCGCTC
 GGGCACTTTGCTCGCAGCTGGCAGCCCGTCAGCCGCATCCCATGCCCCCTCCAGCCCCAGCCCC
 GCGGGGCCCCGCGCCAGCGTCCCATCCCCCTCAGCATGATCTTCAAGCTGCAGAACGCCCTTCTGGGA
 GCACGGGGCCAGCCGCG CCATGCTCCCTGGGTCCCCCTCTTCACCCGAGCACCCCCGCCTAAGCTG
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 AGACCCAACCCCAAAACCCCTACCCAGCCTCCACATCCGCATCCCCAACAGACATGGCCCCCTGTG
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 CCAGTGCTGGAGGCTGGCGATGTGGATGAAGGACCTGTAGCAAGGCCTCTCAGCCCCACGAGGCTG
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 GAAATTCCCCGGCCCCCTCAAACGCAGGGGCTCCATGGAGCAGGCCCTGTGTGGCCCTGCCCCCTA
 CCCACAAGAAACAGTACCAGCAGATCATCAGCCGCTCTTCCATCGTCATGGGGGGCCAGGGCCCCG
 GGGCGGAGCCAGAGCTGTCCCCCATCACTGAGGGATCTGAGGCCAGGGCAGGGCCCCCTGCTCCTG
 CCCCAC CAGTCCCATTCACCGCCCCGGCCCCGTCCAGAGCAGCCACCAGAGCAGCCGCAGAGC
 ATGGAGATGCGCTCTGTGCTGCGGAAGGCGGGCTCCCCGCGCAAGGCCCGCCGCGCGCCTCAACC
 CTCTGGTGCTCCTCCTGGACGCGGCGCTGACCGGGGAGCTGGAGGTGGTGCAGCAGGCGGTGAAGG
 AGATGAACGACCCGAGCCAGCCCAACGAGGAGGGCATCACTGCCTTGCAACAACGCCATCTGCGGCG
 CCAACTACTCTATCGTGGATTTCCTCATCACCGCGGGTGCCAATGTCAACTCCCCGACAGCCACGGC
 TGGACACCCCTTGCACTGCGCGGCGTCTGTGCAACGACACAGTCATCTGCATGGCGCTGGTGCAGCAG
 GCGCTG CAATCTTCGC CACCACGCTC AGCGACGGCG CCACCGCCTTCGAGAAGTGCAGCCCTTACC
 GCGAGGGTTATGCTGACTGCGCCACCTACCTGGCAGACGTCGAGCAGAGTATGGGGCTGATGAACA
 GCGGGGCAGTGACGCTCTCTGGGACTACAGCGCCGAGTTCGGGGACGAGCTGTCTTCCGCGAGGG
 CGAGTCGGTCACCGTGCTGCGGAGGGACGGGCCGAGGAGACCGACTGGTGGTGGGCCGCGCTGCA
 CGGCCAGGAGGGCTACGTGCCGCGGAATACTTCGGGCTGTTCGCCAGGGTGAAAGCCTCAAAGGAGT
 AAAGTCTAGCAGGATAGAAGGAGGTTTCTGAGGCTGACAGAAACAAGCATTCCTGCCTTCCCTCCAG
 ACCTCTC CCTCTGTTTTTTGCTGCCTT TATCTGCACC CCTACCCCTG CTGGTGGTGG TCCTTGCCAC
 CGGTTCTCTGTTCTCCTGGAAGTCCAGGGAAGAAGGAGGGCCCCAGCCTTAAATTTAGTAATCTGCC
 TTAGCCTTGGGAGGTCTGGGAAGGGCTGGAAATCACTGGGGACAGGAAACCACTTCCTTTTGCCAAA
 TCAGAT CCGCTCCAAA GTGCCTCCCA TGCCTACCAC CATCATCACA TCCCCAGCAAGCCAGCCAC
 CTGCCCAGCCGGGCTGGGATGGGCCACCACACCACTGGATATTCCTGGGAGTCACTGCTGACACCA
 TCTCTCCCAGCAGTCTTGGGGTCTGGGTGGGAAACATTGGTCTCTACCAGGATCCCTGCCCCACCTCT
 CCCCC ATTAAGTGCC TTCACACAGC ACTGGTTAATGTTTATAAA CAAAATAGAG AAAGTGGTTT
 AATGTTTATA AACAAAATAG AGAACTTTCGCTTATAAAT AAAAGTAGTT TGCACAGAAA
 TGA AAAAAAAAA AAAAAAAAA AAAAAA

Figure 3.1

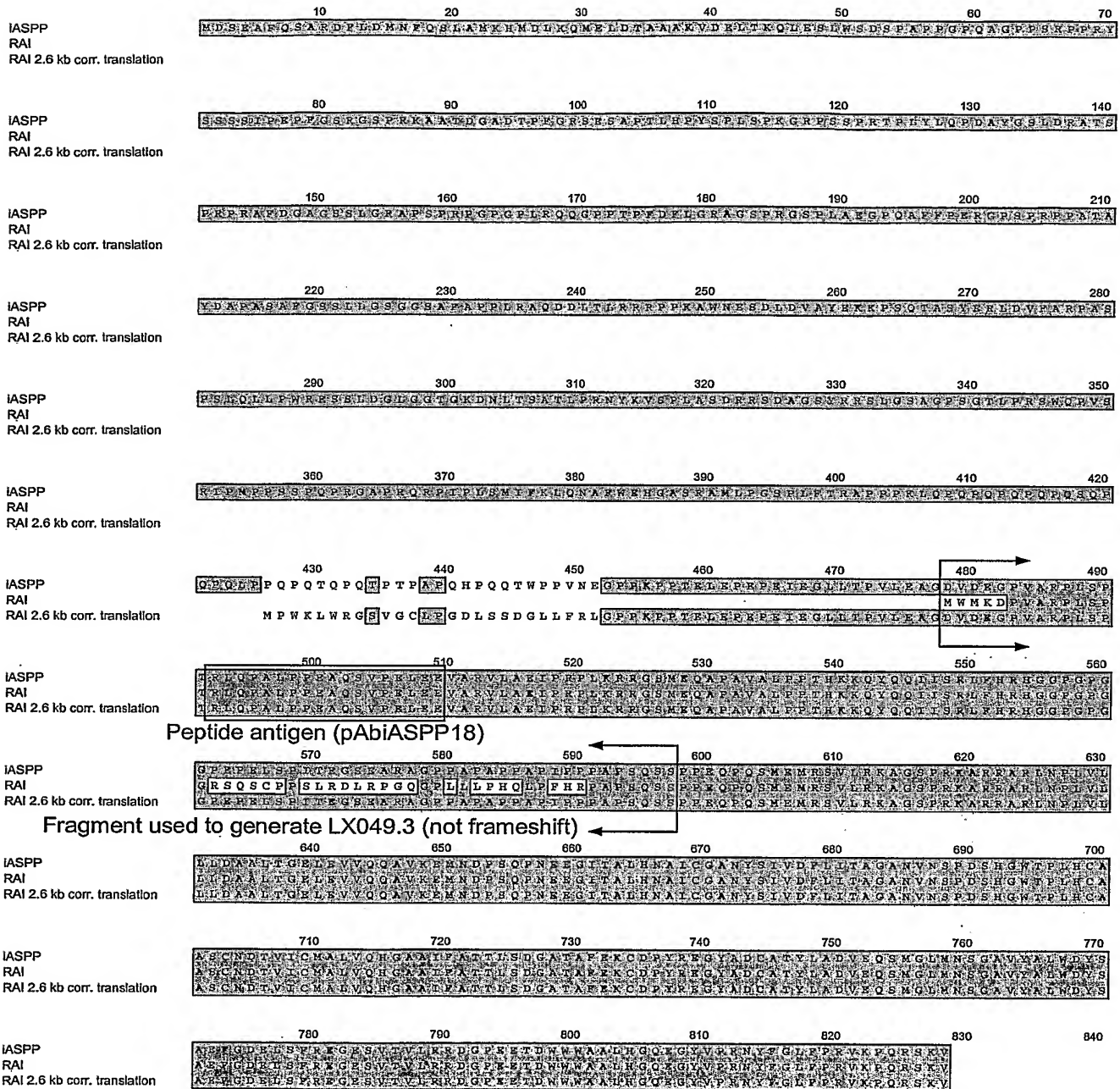
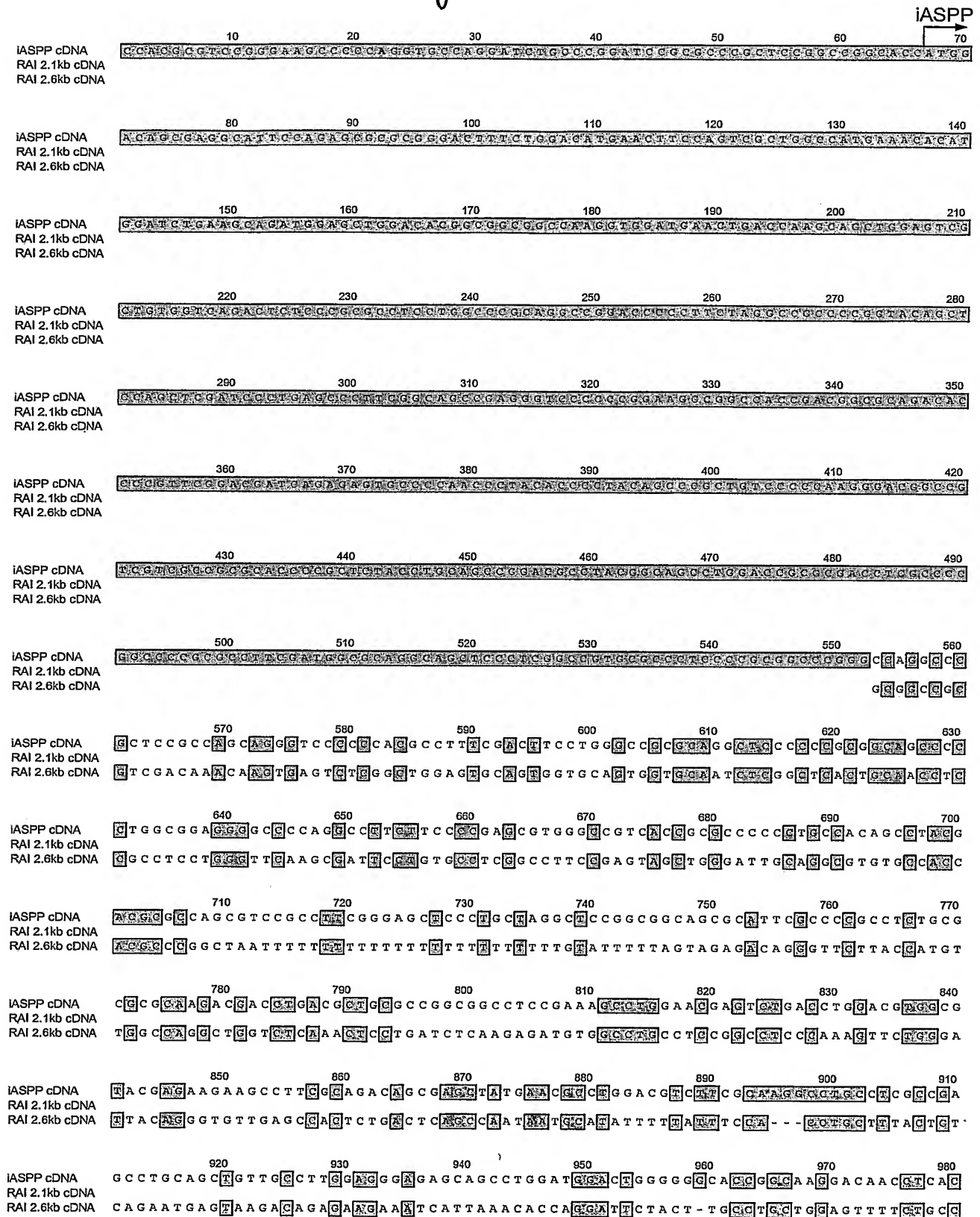


Figure 3.2



990 1000 1010 1020 1030 1040 1050

IASPP cDNA
RAI 2.1kb cDNA
RAI 2.6kb cDNA

1060 1070 1080 1090 1100 1110 1120

IASPP cDNA
RAI 2.1kb cDNA
RAI 2.6kb cDNA

1130 1140 1150 1160 1170 1180 1190

IASPP cDNA
RAI 2.1kb cDNA
RAI 2.6kb cDNA

1200 1210 1220 1230 1240 1250 1260

IASPP cDNA
RAI 2.1kb cDNA
RAI 2.6kb cDNA

1270 1280 1290 1300 1310 1320 1330

IASPP cDNA
RAI 2.1kb cDNA
RAI 2.6kb cDNA

1340 1350 1360 1370 1380 1390 1400

IASPP cDNA
RAI 2.1kb cDNA
RAI 2.6kb cDNA

1410 1420 1430 1440 1450 1460 1470

IASPP cDNA
RAI 2.1kb cDNA
RAI 2.6kb cDNA

1480 1490 1500 1510 1520 1530 1540

IASPP cDNA
RAI 2.1kb cDNA
RAI 2.6kb cDNA

1550 1560 1570 1580 1590 1600 1610

IASPP cDNA
RAI 2.1kb cDNA
RAI 2.6kb cDNA

1620 1630 1640 1650 1660 1670 1680

IASPP cDNA
RAI 2.1kb cDNA
RAI 2.6kb cDNA

1690 1700 1710 1720 1730 1740 1750

IASPP cDNA
RAI 2.1kb cDNA
RAI 2.6kb cDNA

1760 1770 1780 1790 1800 1810 1820

IASPP cDNA
RAI 2.1kb cDNA
RAI 2.6kb cDNA

1830 1840 1850 1860 1870 1880 1890

IASPP cDNA
RAI 2.1kb cDNA
RAI 2.6kb cDNA

Stop codon introduced by frameshift

Frameshift – see protein sequence

Figure 3.4

IASPP cDNA RAI 2.1kb cDNA RAI 2.6kb cDNA	1900 G C A T G G A G A T G C G C T C T G T C T T G C G G A A G G C G G C T C C C G C C A A G C C C G C G G C C T C A A C C C 1910 G C A T G G A G A T G C G C T C T G T C T C T G C G G A A G G C G G C T C C C G C C A A G C C C G C G G C C T C A A C C C 1920 G C A T G G A G A T G C G C T C T G T C T C T G C G G A A G G C G G C T C C C G C C A A G C C C G C G G C C T C A A C C C
IASPP cDNA RAI 2.1kb cDNA RAI 2.6kb cDNA	1970 T C T G C T G C T C C T G C T G G A C G G G C G G T G A C C G G G A G G C T G A G C T G G T G C A G C A G C C G T G A A G G A G A T G 1980 T C T G C T G C T C C T G C T G G A C G G G C G G T G A C C G G G A G G C T G A G C T G G T G C A G C A G C C G T G A A G G A G A T G 1990 T C T G C T G C T C C T G C T G G A C G G G C G G T G A C C G G G A G G C T G A G C T G G T G C A G C A G C C G T G A A G G A G A T G
IASPP cDNA RAI 2.1kb cDNA RAI 2.6kb cDNA	2040 A T C C A C C G G A G C C A G C C A T A C G G A G G C C A T C A C T G C C T G C A A C G G C A T C T G G G C C A A C T A C T 2050 A T C C A C C G G A G C C A G C C A T A C G G A G G C C A T C A C T G C C T G C A A C G G C A T C T G G G C C A A C T A C T 2060 A T C C A C C G G A G C C A G C C A T A C G G A G G C C A T C A C T G C C T G C A A C G G C A T C T G G G C C A A C T A C T
IASPP cDNA RAI 2.1kb cDNA RAI 2.6kb cDNA	2110 C T A T G G T G G A T T T G C T C A T C A C C G C G G T G C C A T G T C A A C T C C C G A G A C C A C G G C T G G A C A C C C T 2120 C T A T G G T G G A T T T G C T C A T C A C C G C G G T G C C A T G T C A A C T C C C G A G A C C A C G G C T G G A C A C C C T 2130 C T A T G G T G G A T T T G C T C A T C A C C G C G G T G C C A T G T C A A C T C C C G A G A C C A C G G C T G G A C A C C C T
IASPP cDNA RAI 2.1kb cDNA RAI 2.6kb cDNA	2180 G A C T G C G G G C G T C G T G C A C G G A C G A C G A T C T G C T G C T G G G G C T G G T G C A G C A C G G C C G C A C T T C 2190 G A C T G C G G G C G T C G T G C A C G G A C G A C G A T C T G C T G C T G G G G C T G G T G C A G C A C G G C C G C A C T T C 2200 G A C T G C G G G C G T C G T G C A C G G A C G A C G A T C T G C T G C T G G G G C T G G T G C A G C A C G G C C G C A C T T C
IASPP cDNA RAI 2.1kb cDNA RAI 2.6kb cDNA	2250 G C C A C C A C C T C A G G A C G G G C C A C G G C C T T C G A G A G T G C C A C C C T T A C C C G A G G G T A T G C T G A C T 2260 G C C A C C A C C T C A G G A C G G G C C A C G G C C T T C G A G A G T G C C A C C C T T A C C C G A G G G T A T G C T G A C T 2270 G C C A C C A C C T C A G G A C G G G C C A C G G C C T T C G A G A G T G C C A C C C T T A C C C G A G G G T A T G C T G A C T
IASPP cDNA RAI 2.1kb cDNA RAI 2.6kb cDNA	2320 C C G C A C C T A C C T G G C A G C G G C C C A C G A G A T A T G G G C C T G A T G A A C A G G G G C A C T G A A G C T C T G 2330 C C G C A C C T A C C T G G C A G C G G C C C A C G A G A T A T G G G C C T G A T G A A C A G G G G C A C T G A A G C T C T G 2340 C C G C A C C T A C C T G G C A G C G G C C C A C G A G A T A T G G G C C T G A T G A A C A G G G G C A C T G A A G C T C T G
IASPP cDNA RAI 2.1kb cDNA RAI 2.6kb cDNA	2390 G G A C T A G A G C C C G A G G T T G G G G A G G A G T G T C C T T C G G C C A G G G C G A G T C G G T A C C G T G C T G C G A G 2400 G G A C T A G A G C C C G A G G T T G G G G A G G A G T G T C C T T C G G C C A G G G C G A G T C G G T A C C G T G C T G C G A G 2410 G G A C T A G A G C C C G A G G T T G G G G A G G A G T G T C C T T C G G C C A G G G C G A G T C G G T A C C G T G C T G C G A G
IASPP cDNA RAI 2.1kb cDNA RAI 2.6kb cDNA	2460 G A C G G G C C C A G C A C C A C C A C C G T G G T G G C C G C G T G C A G G G C A G G C A G G G C T A C C T G C C G G G A A C T 2470 G A C G G G C C C A G C A C C A C C A C C G T G G T G G C C G C G T G C A G G G C A G G C A G G G C T A C C T G C C G G G A A C T 2480 G A C G G G C C C A G C A C C A C C A C C G T G G T G G C C G C G T G C A G G G C A G G C A G G G C T A C C T G C C G G G A A C T
IASPP cDNA RAI 2.1kb cDNA RAI 2.6kb cDNA	2530 A C T T C G G G C T G T T C C C A G G G T G A A G C C T C A A G G A G T A A G T O T A G C A G C A T A G A A G C A G G T T C T G A G 2540 A C T T C G G G C T G T T C C C A G G G T G A A G C C T C A A G G A G T A A G T O T A G C A G C A T A G A A G C A G G T T C T G A G 2550 A C T T C G G G C T G T T C C C A G G G T G A A G C C T C A A G G A G T A A G T O T A G C A G C A T A G A A G C A G G T T C T G A G
IASPP cDNA RAI 2.1kb cDNA RAI 2.6kb cDNA	2600 G C T G A C G A A C A G A G A T T C C T G C C T T C C C A G A C C T C T C T G T G T T T T G C T G C C T T A T C T G C A 2610 G C T G A C G A A C A G A G A T T C C T G C C T T C C C A G A C C T C T C T G T G T T T T G C T G C C T T A T C T G C A 2620 G C T G A C G A A C A G A G A T T C C T G C C T T C C C A G A C C T C T C T G T G T T T T G C T G C C T T A T C T G C A
IASPP cDNA RAI 2.1kb cDNA RAI 2.6kb cDNA	2670 C C C C C A G C C T G C A G G T G G T G C C T T G C C A C G G T T C T C T G T T C C T G A A G T C C A G G G A A G A A G G A G 2680 C C C C C A G C C T G C A G G T G G T G C C T T G C C A C G G T T C T C T G T T C C T G A A G T C C A G G G A A G A A G G A G 2690 C C C C C A G C C T G C A G G T G G T G C C T T G C C A C G G T T C T C T G T T C C T G A A G T C C A G G G A A G A A G G A G
IASPP cDNA RAI 2.1kb cDNA RAI 2.6kb cDNA	2740 G G C C C A G C C T T A A A T T A G T A A T C T G C C T A G C C T T G G G A G C G T G G G A A G G C C T G G A A T C A C T G G C C 2750 G G C C C A G C C T T A A A T T A G T A A T C T G C C T A G C C T T G G G A G C G T G G G A A G G C C T G G A A T C A C T G G C C 2760 G G C C C A G C C T T A A A T T A G T A A T C T G C C T A G C C T T G G G A G C G T G G G A A G G C C T G G A A T C A C T G G C C
IASPP cDNA RAI 2.1kb cDNA RAI 2.6kb cDNA	2810 A C A G G A A C C A C T T C C T T T G C C A A T C G A T T C C G G T C C A A A G T G C C T C C C A T G C C T A C C A C C A T C A T C A 2820 A C A G G A A C C A C T T C C T T T G C C A A T C G A T T C C G G T C C A A A G T G C C T C C C A T G C C T A C C A C C A T C A T C A 2830 A C A G G A A C C A C T T C C T T T G C C A A T C G A T T C C G G T C C A A A G T G C C T C C C A T G C C T A C C A C C A T C A T C A

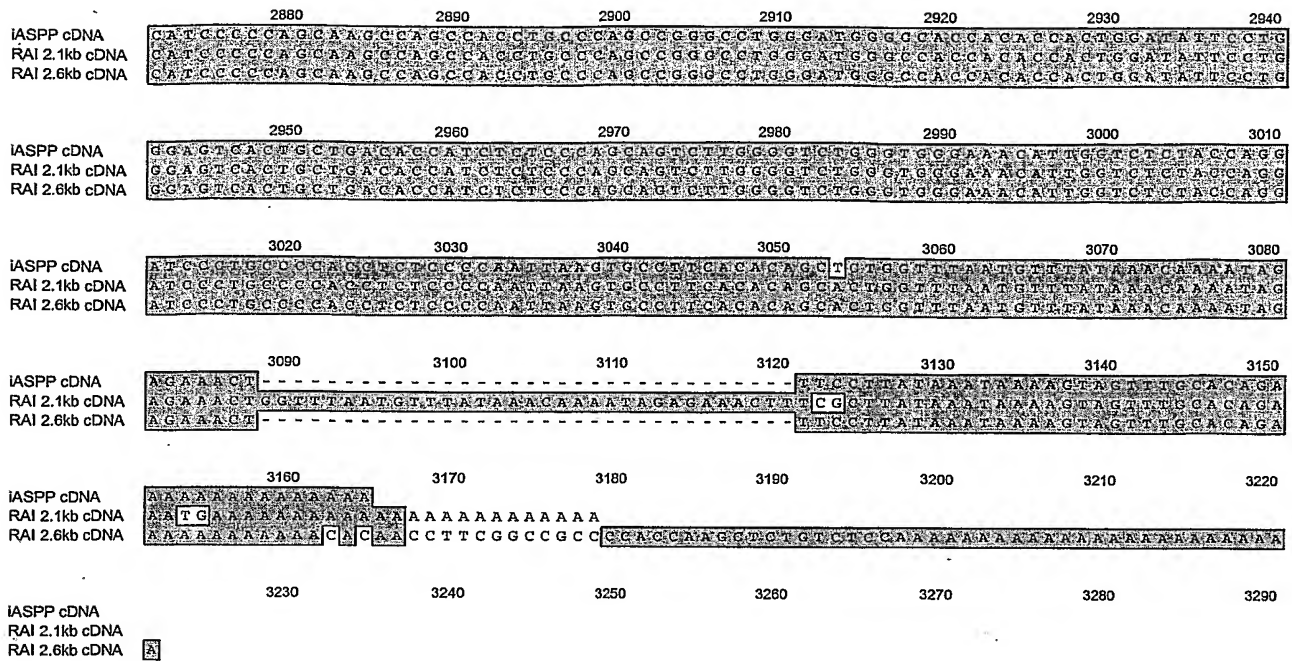
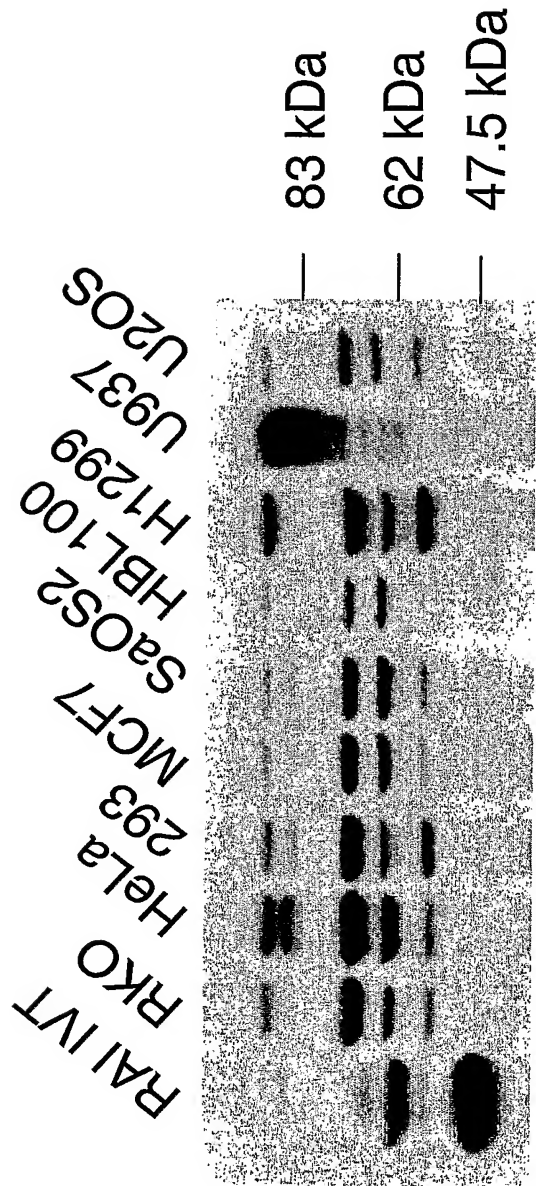


Figure 4a

Expression of iASPP in various cell lines



Antibody = LX049.3

Figure 4B

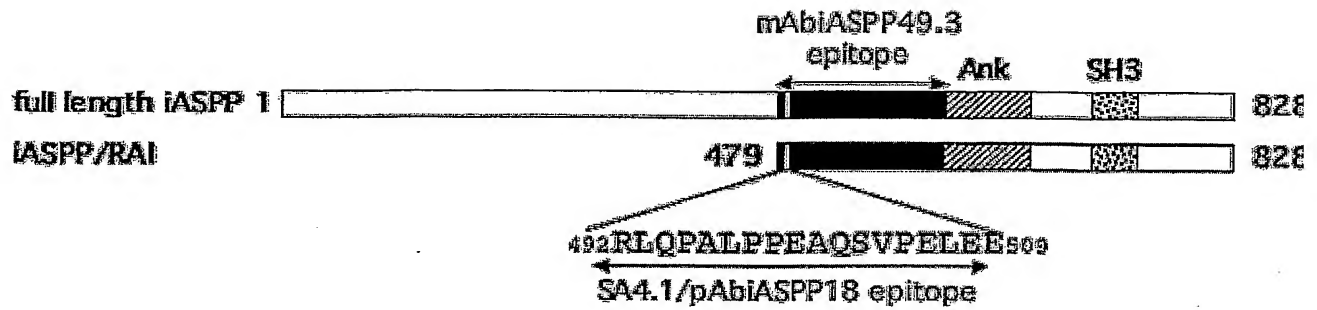


Figure 4C

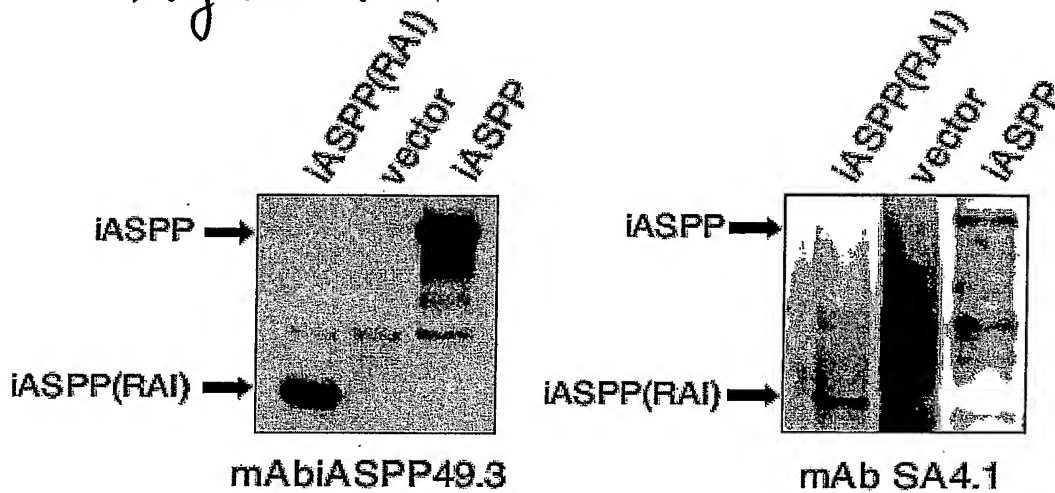
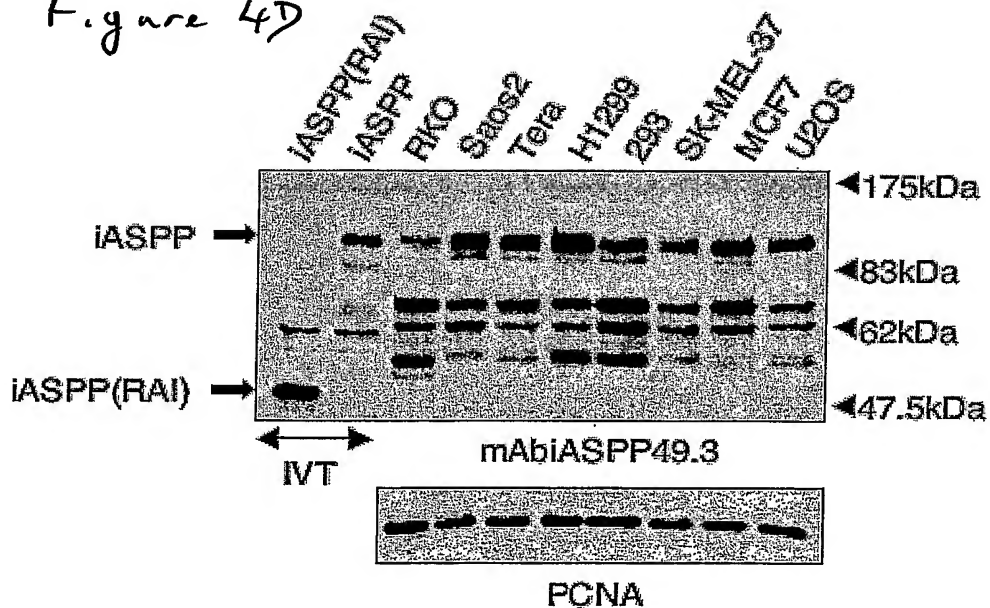
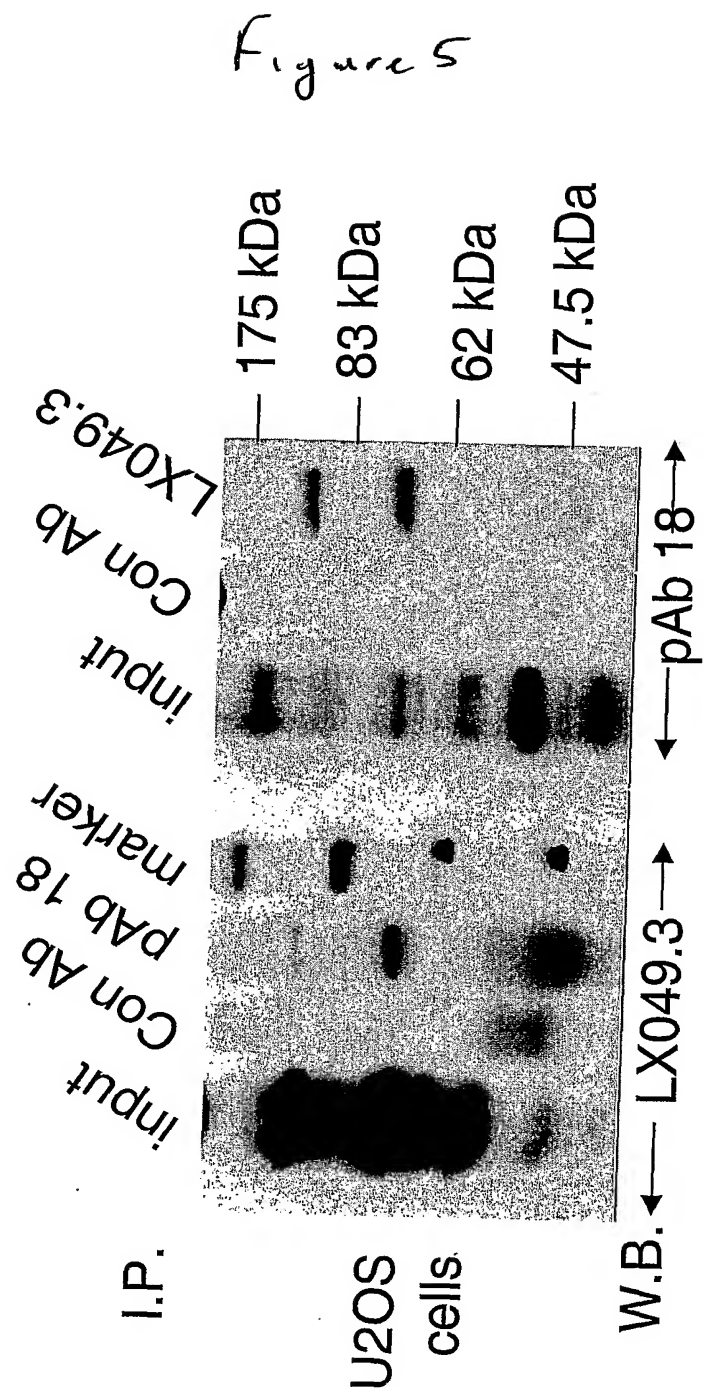


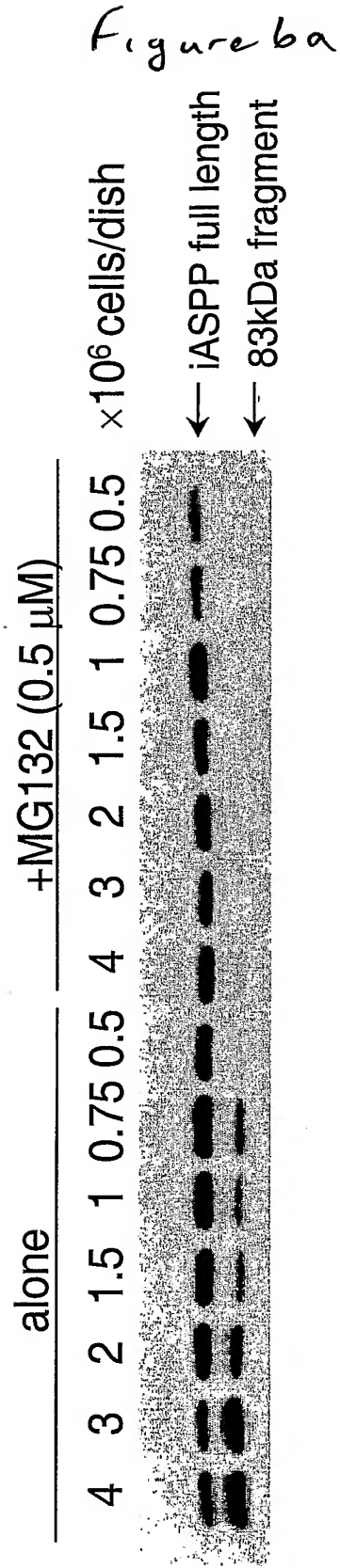
Figure 4D



iASPP - I.P./Western blot



Effect of cell density and MG132 upon iASPP
expression in U2OS cells



Interaction of iASPP with p53 and Bcl2 in U2OS cells

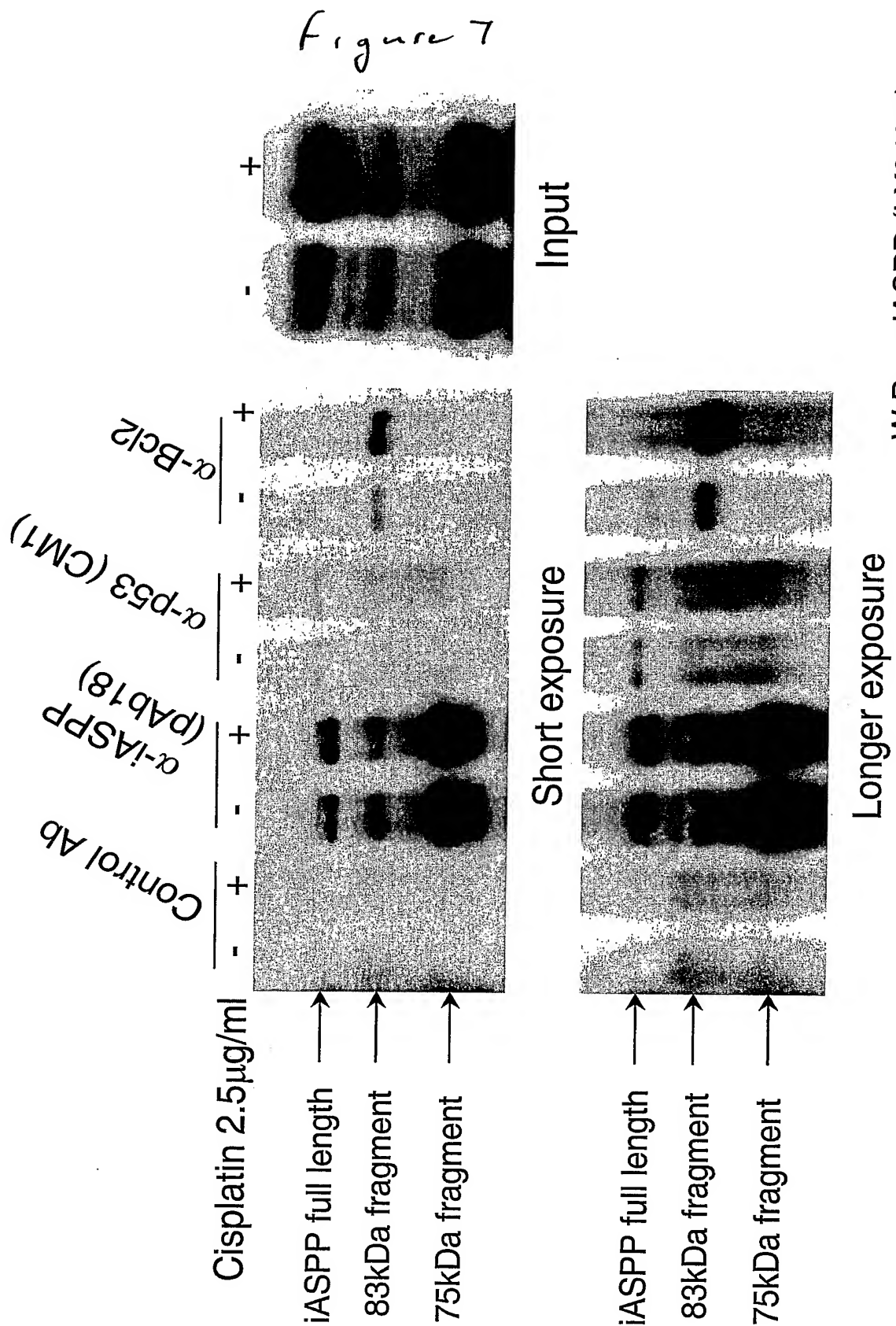


Figure 8

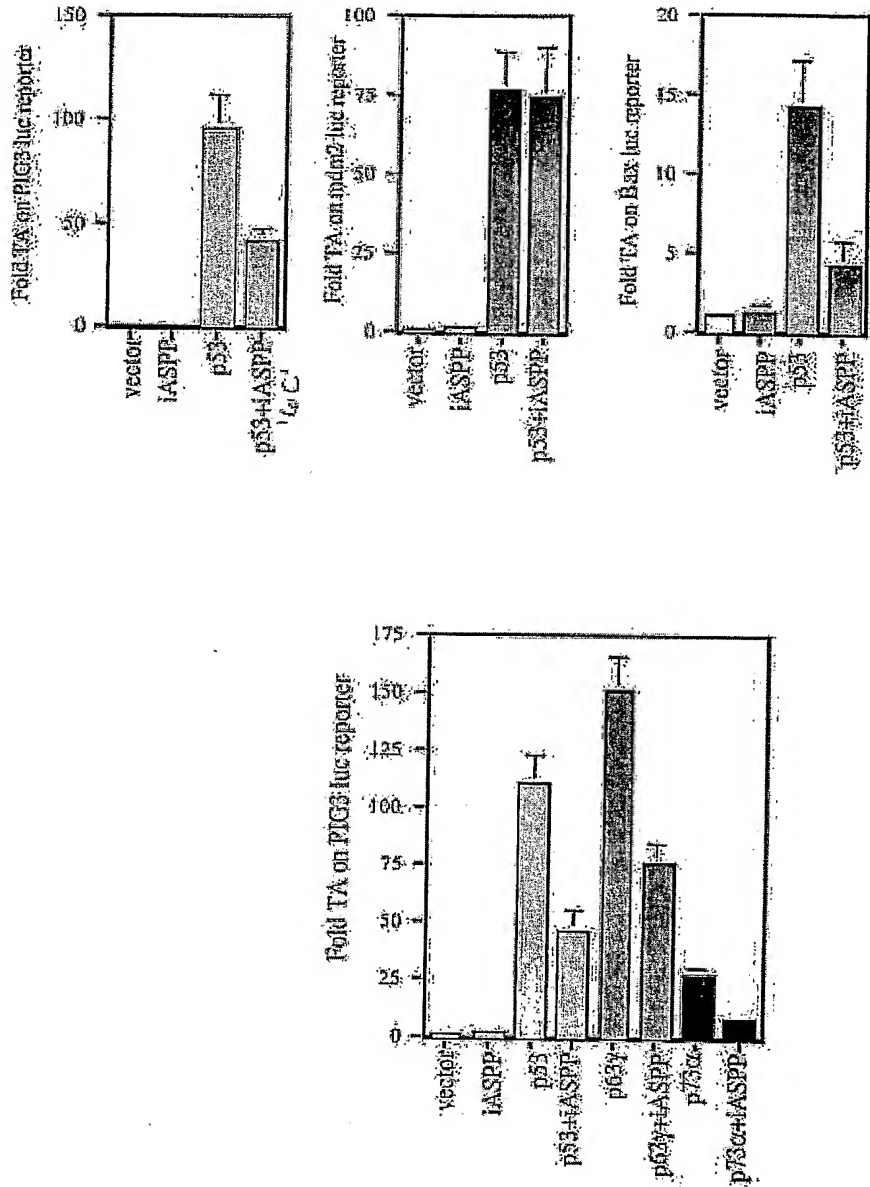


Figure 9

iASPP pattern in five different cell lines

